

Appl. No. 10/092,377  
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Customer No.: 26021

### ABSTRACT OF THE DISCLOSURE

A voltage supplying device includes a reference voltage generating circuit having a ladder resistance circuit to which a plurality of resistors are connected in series. First impedance conversion circuits are provided. A voltage selection circuit selects a reference voltages from the first impedance conversion circuits. A second impedance conversion circuit performs impedance conversion on a voltage from the voltage selection circuit. A first switching element for blocking an output of the second Impedance conversion circuit, a first bypass line for shorting input and output lines of the second impedance conversion circuit and a second switching element on the first bypass line are also provided. Third switching elements for blocking an output of the first impedance conversion circuits, second bypas2s lines for shorting input and output lines of the respective first impedance conversion circuits and fourth switching elements provided on the second bypass lines are also provided.